

12 February 1993

PNEUDRAULIC SYSTEMS

(C-141)

1. Objective. As prescribed in AFR 8-10, this Air National Guard Manpower Standard (ANGMS) quantifies the full-time manpower requirement to accomplish the tasks described in the work center description for varying levels of workload volume.

2. Authority. Air National Guard (ANG) Regulation 66-14 contains ANG policy and procedural guidance for the Pneudraulic Systems work center. This ANGMS has been developed in accordance with procedures contained in AFR 25-5, 16 May 88. This ANGMS is a result of a functional review.

3. Applicability. This standard applies to ANG C-141 Air Mobility Command gained flying units. This standard applies only to peacetime operations.

4. Standard Data:

- a. **Classification.** Type III.
- b. **Approval Date.** 4 Jan 93.
- c. **Man-Hour Data Source.** Operational Audit (historical record and technical estimate techniques).
- d. **Standard Man-Hour Equation.** $Y = 4.684 + 1.827X_1 + 19.58X_2$.
- e. **Workload Factor:**
 - (1) **Title:**
 - (a) X_1 . A Programmed Flying Hour.
 - (b) X_2 . A C-141 Aircraft Authorized.
 - (2) **Definition:**
 - (a) X_1 . The average monthly programmed flying hours.
 - (b) X_2 . The average monthly C-141 aircraft authorized.
 - (3) **Source of Count:**
 - (a) X_1 . USAF Program Document (PD), Volume II, maintained by NGB/FM.
 - (b) X_2 . USAF Program Document (PD), Volume II, maintained by NGB/FM.

5. Application Instructions:

- a. The valid man-hour range for this ANGMS is 589.11 through 981.85. Should the extrapolation limits be exceeded, see AFR 26-1, Volume III, paragraph 1-20 for guidance.
- b. The AF Form 1113, Standard Manpower Table, is an aggregate of total manpower by specialty title and Air Force Specialty Code (AFSC). The applicable instructions are as follows:
 - (1) Determine the values for the two workload factors (WLFs) identified in paragraph 4e.
 - (2) Substitute the appropriate WLF value into the man-hour equation for X_1 and X_2 .
 - (3) Divide the total man-hours by the current civilian man-hour availability factor to determine total requirements.
 - (4) Find the column in which the number of required authorizations fall; read up to determine manpower by AFSC.
- c. Fractional manpower requirements resulting from application of the standard will not be aggregated.

6. Statement of Conditions. This work center's normal hours of operation are 8 hours a day, 5 days a week. There are no other standard of living constraints which affect the daily operation of this work center.

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2 Attachments
1. Work Center Description
2. Standard Manpower Table

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WORK CENTER DESCRIPTION**Pneudraulic Systems****(C-141)****DIRECT:****1. ON-EQUIPMENT MAINTENANCE:**

1.1. MAINTAINS AIRFRAME SYSTEM. Inspects, troubleshoots, and repairs door actuation equipment.

1.2. MAINTAINS LANDING GEAR SYSTEM. Inspects, troubleshoots, and repairs equipment.

1.3. MAINTAINS FLIGHT CONTROL SYSTEM. Inspects, troubleshoots, and repairs equipment.

1.4. MAINTAINS TURBOFAN POWER PLANT THRUST REVERSER SYSTEM.

1.5. MAINTAINS AUXILIARY POWER PLANT HYDRAULIC SYSTEM. Inspects, troubleshoots, and repairs equipment.

1.6. MAINTAINS EMERGENCY POWER SYSTEM-ALTERNATING CURRENT (A.C.). Inspects, troubleshoots, and repairs equipment.

1.7. MAINTAINS HYDRAULIC AND PNEUMATIC POWER SUPPLY SYSTEM. Inspects, troubleshoots, and repairs equipment.

1.7.1. MAINTAINS NO. 1 HYDRAULIC SYSTEM:

1.7.1.1. MAINTAINS RESERVOIR ASSEMBLY.

1.7.1.2. MAINTAINS VALVE.

1.7.1.3. MAINTAINS PUMP.

1.7.1.4. MAINTAINS FILTER ASSEMBLY.

1.7.1.5. MAINTAINS MISCELLANEOUS COMPONENT.

1.7.2. MAINTAINS NO. 2 HYDRAULIC SYSTEM:

1.7.2.1. MAINTAINS RESERVOIR ASSEMBLY.

1.7.2.2. MAINTAINS VALVE.

1.7.2.3. MAINTAINS PUMP.

1.7.2.4. MAINTAINS FILTER ASSEMBLY.

1.7.2.5. MAINTAINS MISCELLANEOUS COMPONENT.

1.7.3. MAINTAINS NO. 3 HYDRAULIC SYSTEM:

1.7.3.1. MAINTAINS RESERVOIR ASSEMBLY.

1.7.3.2. MAINTAINS VALVE.

1.7.3.3. MAINTAINS PUMP.

1.7.3.4. MAINTAINS ACCUMULATOR ASSEMBLY.

1.7.3.5. MAINTAINS FILTER ASSEMBLY.

1.7.3.6. MAINTAINS MISCELLANEOUS COMPONENT.

1.7.4. MAINTAINS HYDRAULIC ELECTRICAL CONTROL.

1.7.5. MAINTAINS HYDRAULIC INSTRUMENT.

1.7.6. MAINTAINS HYDRAULIC EMERGENCY ELECTRICAL SYSTEM.

1.7.7. MAINTAINS NO. 4 HYDRAULIC SYSTEM RESERVOIR ASSEMBLY.

1.8. MAINTAINS AERIAL REFUELING SYSTEM. Inspects, troubleshoots, and repairs equipment.

1.9. MAINTAINS AUTOMATIC FLIGHT CONTROL SYSTEM. Inspects, troubleshoots, and repairs equipment.

1.10. PERFORMS INSPECTION. Performs special, phase, and hourly aircraft inspection.

1.10.1. PERFORMS PERIODIC/ISOCHRONAL INSPECTION:

1.10.1.1. PERFORMS AIRCRAFT MAJOR INSPECTION.

1.10.1.2. PERFORMS AIRCRAFT MINOR INSPECTION.

1.10.1.3. PERFORMS AIRCRAFT HOME STATION CHECK INSPECTION.

1.10.1.4. PERFORMS AIRCRAFT REFURBISHMENT INSPECTION.

1.10.2. PERFORMS SPECIAL INSPECTION.

2. OFF-EQUIPMENT MAINTENANCE:

2.1. MAINTAINS AIRFRAME SYSTEM. Inspects, troubleshoots, and repairs door activation equipment.

2.2. MAINTAINS LANDING GEAR SYSTEM. Inspects, troubleshoots, and repairs equipment.

2.3. MAINTAINS FLIGHT CONTROL SYSTEM. Inspects, troubleshoots, and repairs equipment.

2.4. MAINTAINS THRUST REVERSER SYSTEM. Inspects, troubleshoots, and repairs equipment.

2.5. MAINTAINS AUXILIARY POWER PLANT HYDRAULIC SYSTEM. Inspects, troubleshoots, and repairs equipment.

2.6. MAINTAINS EMERGENCY POWER SYSTEM-A.C. Inspects, troubleshoots, and repairs equipment.

2.7. MAINTAINS HYDRAULIC AND PNEUMATIC POWER SUPPLY SYSTEM. Inspects, troubleshoots, and repairs equipment.

2.7.1. MAINTAINS HYDRAULIC RESERVOIR ASSEMBLY.

2.7.2. MAINTAINS HYDRAULIC VALVE.

2.7.3. MAINTAINS HYDRAULIC PUMP SYSTEM.

2.7.4. MAINTAINS HYDRAULIC ACCUMULATOR ASSEMBLY.

2.7.5. MAINTAINS HYDRAULIC FILTER ASSEMBLY.

2.7.6. MAINTAINS HYDRAULIC MISCELLANEOUS COMPONENT.

2.8. MAINTAINS AERIAL REFUELING SYSTEM. Inspects, troubleshoots, and repairs equipment.

3. NON-POWERED AEROSPACE GROUND EQUIPMENT. Maintains non-powered aerospace ground equipment.

4. PERIODIC MAINTENANCE ON EQUIPMENT IN BASE SUPPLY. Performs periodic functional check or calibration of equipment stored in Base Supply to maintain shelf life and ensure serviceability before use.

5. SHOP SUPPORT GENERAL CODE. Performs shop support general code.

6. GROUND HANDLING, SERVICING, AND RELATED TASK. Performs ground handling, servicing, and related task.

7. DIRECT LABOR MAINTENANCE. Assists in the performance of direct labor maintenance requirement to ensure effective utilization of maintenance personnel.

8. TIME COMPLIANCE TECHNICAL ORDER (TCTO). Performs maintenance required on/off the aircraft in accordance with applicable TCTO and completes documentation.

9. UNIT TRAINING ASSEMBLY (UTA) AND MOBILITY REQUIREMENT. Performs planning/scheduling task associated with preparation for UTA weekend and mobility requirement.

INDIRECT: Indirect work involves those tasks that are not readily identifiable with the work center's specific product or service. The major categories of standard indirect work are Supervision, Administration, Meeting, Training, Supply, Equipment Maintenance, and Cleanup. See AFMS 00AA for the standard indirect description.

STANDARD MANPOWER TABLE										
WORK CENTER/FAC			APPLICABILITY MAN-HOUR RANGE							
Pneudraulic Systems/23340A			589.11 - 981.85							
AIR FORCE SPECIALTY TITLE	AFSC	GRADE	MANPOWER REQUIREMENT							
Systems Maintenance	454XX	CIV	1	1	1	1				
Acft Pneudraulic Sys	454X4	CIV	3	4	5	6				
TOTAL			4	5	6	7				
AIR FORCE SPECIALTY TITLE	AFSC	GRADE	MANPOWER REQUIREMENT							
TOTAL										